ACC NR: AP6026983	SOURCE CODE: UR/005	
AUTHOR: Kaliteyevskiy, N. I.; Chayka, M. P.	; Popov, M. M.; Rymarchuk, Yu. A.;	Tolchinskaya, T. B.
		61
ORG: 1.one		59
TITLE: Gas laser generation p	power in nearly confocal resonator	·s (C
SOURCE: Optika i spektroskopi	iya, v. 21, no. 2; 1966, 258-260	
TOPIC TAGS: gas laser, neon h	nelium laser, infrared laser, LAS	SER ENERGY, NEON
州Eたいの ABSTRACT: A qualitative exola	anation of the mechanism responsib	ole for the appearance
of the maximum of power genera	ation in a nearly confocal resonat	or of a gas laser is
	neon-helium laser at $\lambda = 0.63$ and decrease in the figure of merit i	
	inimum should appear on the curve	
	L (L being the distance between the width of the instability region	
	the mirror radii aR. In a study	
	250 cm within 0.4 cm, minima were as varied by shifting the discharg	
nator axis and replacing the t	tube by another. These experiment	al data were attribut
to the distorting influence of	f the exit windows of the discharg	e tube. It is shown
	UDC: 621.375.9:535	(00(0)

ACC NR: AP6026983

that a tube window built with an error of $\sim \frac{\lambda}{Z}$ and consisting of a lens with a focal length of 100 m causes the appearance of a region of instability of width $\Delta L = 6$ cm at R = 250 cm. The region of instability was found in similar fashion for a resonator where the space between one of the mirrors and the window is filled with a gas with refractive index N_c different from the refractive index of air, N_a. In this case, $L = \frac{N_c - N_c}{N_c} R$. These calculations were confirmed in a series of experiments. Authors are grateful to E. Ye, Fradkin for his discussion and to A. N. Razumovskiy for his assistance in the experiment. Orig. art. has: 2 figures and 1 formula. [27] SUB CODE: 20/ SUBM DATE: 14Mar66/ ORIG REF: 005/ OTH REF: 002/ ATD PRESS: 5057

Card 2/2 hs

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001756030002-7"

VAKAR, A.B., kand.khimicheskikh nauk; TOLCHINSKAYA, Ye.S., nauchnyy sotrudnik

Effect of gamma rays on the gluten and baking quality of wheat flour. Trudy VNIIZ no.38:67-95 '60. (MIRA 15:12)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut zerna,
(Wheat) (Gluten) (Gamma rays)

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001756030002-7"

VAKAR, A.B.; EL'-MILIGI, A.K.; TOLCHINSKAYA, Ye.S.; ZABRODINA, T.M.

Physicochemical properties of gluten determining its quality. Biokhim. zer. i khlebopech. no.7:3-62 '64.

(MIRA 17:9)

1. Institut biokhimii imeni Bakha AN SSSR i Vsesoyuznyy nauchno-issledovatel'skiy institut zerna.

TOICHINSKIY, A., inzh.; GURMAN, B.

Work practices of the Ukrainian provincial interfarm planning

organizations. Sel'.stroi. 15 no.6:9-10 Je '60. (MIRA 13:8)

1. Korrespondent zhurnala "Sil'ske budivnytstvo."
(Ukraine--Farm buildings)
(Ukraine--Collective farms--Interfarm cooperation)

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001756030002-7"

A TOTAL STATE OF A STA

VAKAR, A.B., kand.khim.nauk; KALOSHINA, Z.M., nauchnyy sotrudnik; ARKHIPOVA, Ye.I., nauchnyy sotrudnik; TOLCHINSKAYA, Ye.S., nauchnyy sotrudnik

Effect of ionizing radiations on wheat and corn seed. [Trudy] VNIIZ no.35:43-54 '58. (MIHA 11:10)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut zerna i produktov yego pererabotki (for Vakar, Arkhipova, Tolchinskaya). 2. Mos-kovskaya ordena Lenina sel'skokhozyaystvennaya akademiya im. K.A. Timiryazeva (for Kaloshina).

(Radiation--Physiological effect) (Wheat) (Corn (Maize))

LERNER, L.; TOLCHINSKIY, I.

A butter cutting machine. Sov. torg, 33 no.11:56-58 H '59.
(MIRA 13:2)

(Butter trade--Equipment and supplies)

TOLCHIMSKIY, I.M.

USSR/ Chemistry - Catalytic conversion

Card 1/1 : Pub. 22 - 23/49

Authors Topchiev, A. V., Academician; Tolchinskiy, I. M.; and Krentsel', B. A.

Title : Effect of pentenes and boron fluoride on the conversion of pentane

over an aluminum silicate catalyst

Periodical : Dok. AN SSSR 98/4, 597-600, Oct. 1, 1954

The effect of pentene additions on the yield of pentane conversion products, was investigated at high temperatures and pressures in the presence of an Al₂(SiO₃) catalyst. The promoting effect of BF₃ during the conversion of pentane over an Al₂(SiO₃) catalyst, was also stud-

ied. Resutls obtained during pentane conversion over an Al₂(SiO₃) catalyst in the presence of a pentene addition and conversion over an identical catalyst saturated with BF₃, are shown in tables. Five re-

ferences: 3-USSR; 1-USA and 1-English (1946-1952). Tables; graphs.

Institution : ...

Submitted : June 25, 1954

BRONSHTEIN, B. L.; TOLCHTANSKTI, M. TS.
Colon (Anatomy)-Cancer

Cancer of the colon., Novosti med., No. 21, 1951.

9. Monthly List of Russian Accessions, Library of Congress, April 1958, Unclassified.

BRONSHTEIN, B. L.; TOICHIANSKII. M. TS.
Colon(Anatomy)-Cancer

Cancer of the colon., Novosti med., No. 21, 1951.

9. Monthly List of Russian Accessions, Library of Congress, April 1958. Unclassified.

CHAPLITSKIY, Vladimir Konstantinovich [Chaplyts'kyi, V.K.]; SHAMIS, Emanuil Isaakovich; TOLCHINSKIY, A.A. [Tolchyns'kyi, A.A.], glavnyy red.; FAL'KO, Yu.G. [Fal'ko, IU.H.], red.

[Lowering building costs on collective farms] Shliskhy znyzhennia vartosti budivnytstva v kolhospakh. Kyiv, 1960. 30 p. (Tovarystvo dlia poshyrennia politychnykh i naukovykh znan! Ukrains!koi RSR. Ser.6, no.23). (MIRA 14:2)

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001756030002-7"

FARMING THE PROPERTY OF THE PR

KAZINITSKIY, Mikhail Il'ich, inzh.; PLOTKIN, Naum Borisovich, inzh.;

TOLCHINSKIY. Aleksandr Aleksandrovich, inzh.; CHAPLITSKIY,
Vladimir Konstantinovich, inzh.; NASEDKIN, V.A., inzh., retsenzent;
SIVITSKIY, K.P., inzh., retsenzent; KOTOVICH, B.M., & tsent,
retsenzent; VOLCHANSKIY, R.A., kand.tekhn.nauk, nauchnyy red.;
DENISOV, A.A., dotsent, nauchnyy red.; BILINSKIY, M.Ya., red.;
RAKOV, S.I., tekhn.red.

[Handbook for collective farm construction foremen] Spravochnik
kolkhoznogo desiatnika-stroitelia. Moskva, Vses.uchebno-pedagog.
izd-vo Trudrezervizdat, 1959. 564 p. (MIRA 13:5)

(Building)

LASHCHINSKIY, A.A., inzh.; TOLCHINSKIY, A.R., inzh.; GOLUBEV, B.A., inzh., retsenzent; YERSHOV, B.A., inzh., retsenzent; LOGINOV, N.N., inzh., red.; VASIL'YEVA, V.P., red.izd-va; MIKHEYEVA, R.N., red.izd-va; SPERANSKAYA, O.V., tekhn.red.

[Fundamentals of the design and calculation of chemical apparatus] Osnovy konstruirovaniia i rascheta khimicheskoi apparatury; spravochnik. Moskva, Mashgiz, 1963. 468 p.
(MIRA 17:1)

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001756030002-7"

TOLCHINSKIY, B.

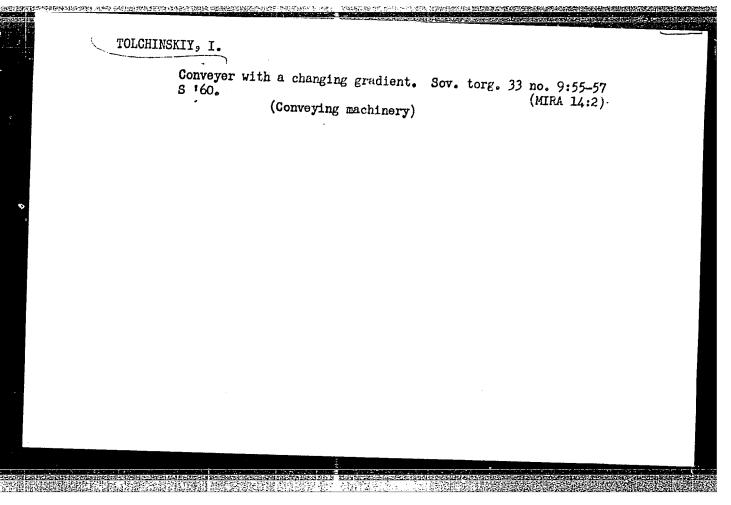
"Largest Radio Telescope," by B. Tolchinskiy, Cgonek, No 3, 13 Jan 57, p 13

The "world's largest" radio telescope went into operation [Photo No 204444] at Pulkovo Heights. It was built on the principle advanced by Prof S. E. Khaykin and N. L. Kaydanovskiy. The area of the telescope site at present is about 350 sq m, but in the future it is planned that this area will be doubled.

The Main Pulkovo Astronomical Observatory of the Academy of Sciences USSR is conducting a series of observations with the aid of this new telescope. The reflectors of this telescope pick up celestial radiation and reflect and focus it on a special antenna placed at the center of this reflector system. From the antenna, the radio waves travel to the receiver, where they are amplified and recorded on a tape.

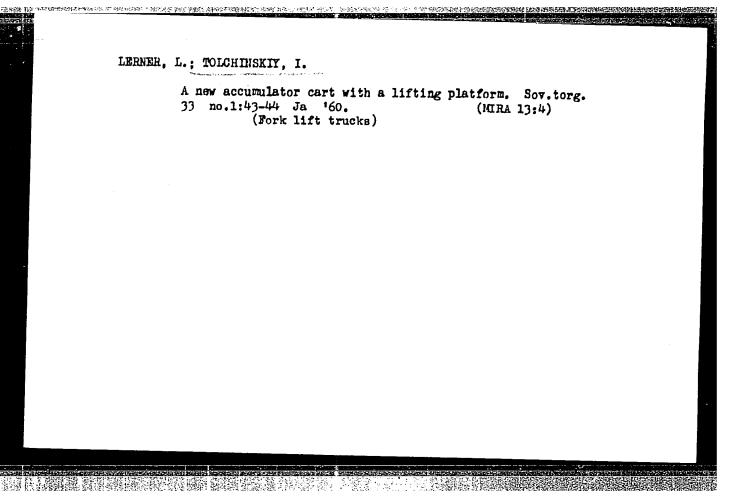
Sum 1274

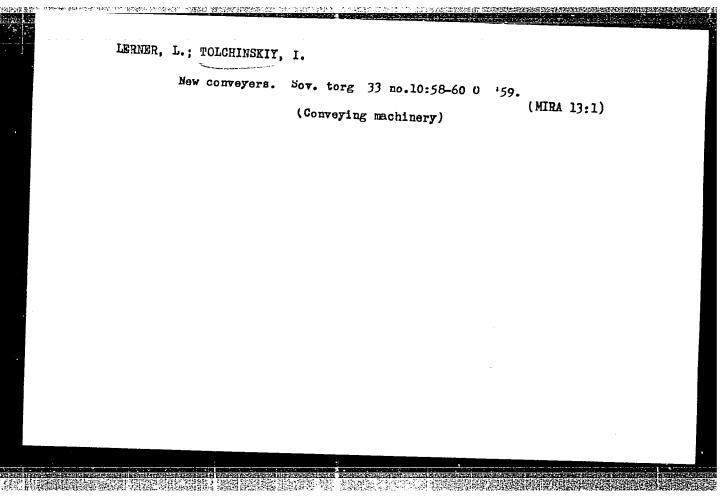
APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001756030002-7"

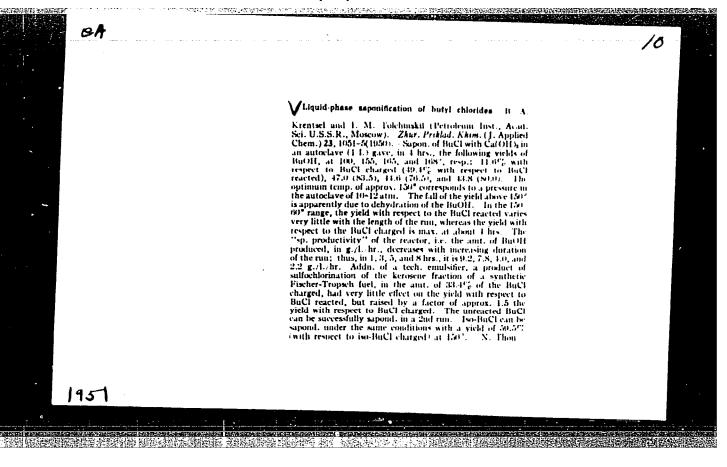


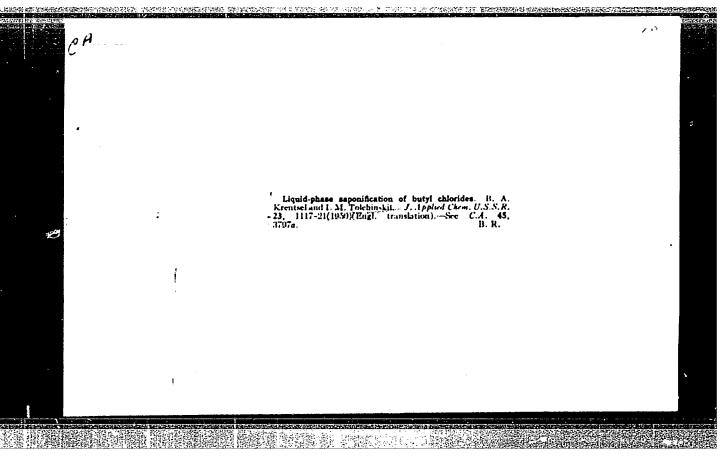
To lighten the work burden of confectioners. Obshchestv. pit.
no. 5:32-33 My '61. (MIRA 14:5)

(Confectionery)









TOLMACHEV, A. I.
"Die evolution der Pflanzen in artisch Eurasiem wahrend und nach der quaternaren Vereisung."
report submitted to 10th Intl Botanical Cong, Edinburgh, 3-12 Aug 64.

TOLUMINSKIY, I. H.

USSR/Chemistry - Fuels, Alkylation

11 Sep 52

"The Thermal Process of the Destructive Alkylation of Pentane," Ya. M. Paushkin, Acad A. V. Topchiyev, B. A. Krentsel', I. M. Tolchinskiy, Inst of Petroleum, Acad Sci USSR

"Dok Ak Nauk SSSR, Vol 86, No 2, pp 321-323

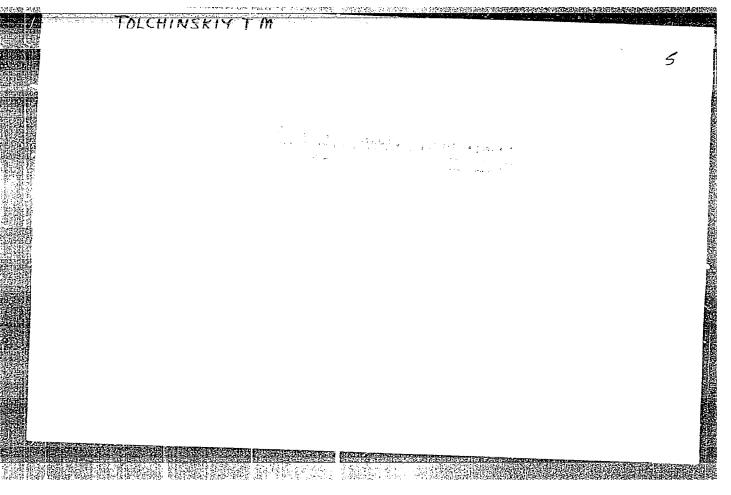
The destructive alkylation of pentane at high temps and pressures without the use of catalysts was carried out in a rotating autoclave. The optimum temp for converting pentane into liquid, high-boiling hydrocarbons lies between 450-460°; the pressure for the temper is 250-310 atm. The optimum time for the reaction is 2 hrs. Prolongation of time; as w ell as increase in temp, leads to formation of gaseous products. The hydrocarbons formed during the thermal conversion of pentane are a result of destructive alkylation, cyclization, and cracking of pentane with subsequent polymerization of the unsatd

PA 235T27

IUCCHINSKIY, I.M.

- 1. TOPCHIYEV, A. V., Acad.; KRENTSEL', B. A.: FAUSHKIR, Ya. N.; TOLCHINSKIY, I. H.
- 2. USSR (600)
- 4. Alkylation
- 7. High temperature destructive alkylation of pentane in the presence of oxidic catalysts. Dokl. AN SSSR, 86, No. 4, 1952

9. Monthly List of Russian Accessions, Library of Congress, February 1953, Unclassified.



World Chaminton Potroleum

TOLCHINSKIY, I. M.

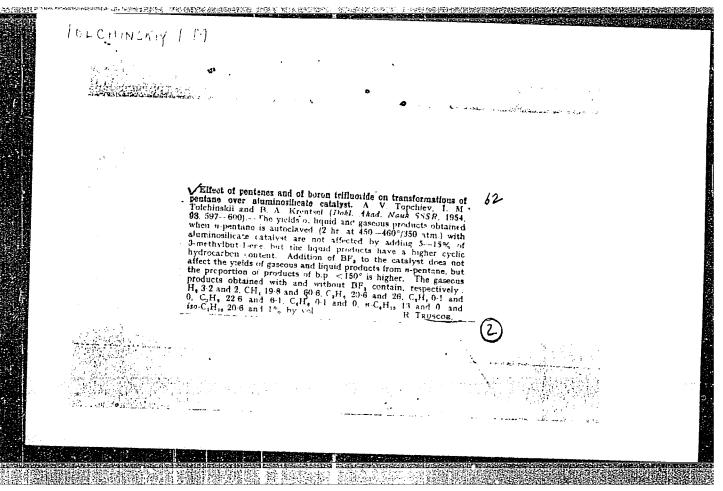
Mar/Apr 53

"Transformation of Pentane Into Liquid Hydrocarbons and Gas at 250-360 Atmospheres and 400-500 C" A.V. Topchiyev, Ya. M. Paushkin, I. M. Tolchinskiy, Petroleum Inst, Acad Sci USCR

Iz Ak Nauk SSSR, OKhN, No 2, pp 260-268

Investigation of the thermocatalytic transformation on n-pentane at 450-460° and a pressure of 300 atm showed that in the absence of catalysts both liquid and gaseous hydrocarbons are formed. The compn of these hydrocarbons indicates that destructive alkylation, cyclization, cracking, and polymerization take place. Use of certain oxide catalysts lowers the temp of the reaction, but does not affect the compn of the hydrocarbons, which contain a large quantity of branched compls as well as napthenic hydrocarbons, including pentamethylene.

256T25



TOLCHINSKIY, I.M.; KRENTSEL', B.A.; TOPCHIYEV, A.V.

Destructive alkylation of benzene with pentane. Izv.AN SSSR. Otd.
khim.nauk no.3:512-521 My-Je '55. (MIRA 8:9)

1. Institut nefti Akademii nauk SSSR.
(Alkylation) (Benzene).

MINISTER STATE STATE OF STATE

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001756030002-7"

TOLCHINSKIY, 4.11.

■ AUTHOR:

TOPCHIYEV, A.V., Member of the Academy,

20-1-31/64

THE CONTRACTOR OF THE CONTRACT

TITLE:

KRENTSEL',B.A., TOLCHINSKIY,I.M., GARNISHEVSKAYA,G.V.
On the Production of Crystalline Polypropylene by the Polymerization of Propylene by Means of a Metal-Organic Catalyzer. (O poluchenii kristalicheskogo polipropilena na metalloorganicheskom katalizatore,

Russian)

PERIODICAL:

Doklady Akademii Nauk SSSR, 1957, Vol 114, Nr 1, pp 113-115

(U.S.S.R.)

ABSTRACT:

The chemistry of polymeric compounds has recently been enriched by new methods of polymerization which make it possible to obtain

stereoregular crystalline poly- of -olefines.

The papers hitherto published contain hardly any data concerning the conditions of the synthesis of the polymerization products. Experiments hitherto carried out show that in the case of polymerization under atmospheric pressure as well as at increased pressure the best results were obtained (at a temperature of nearly 50°). As may be seen from table 1, practically the same results were obtained by working with pure and technical propyles. The X-ray picture of propylen disclosed the existence of sharp characteristic rings of crystalline material. The microphotogram did not differ

Card 1/2

On the Production of Crystalline Polypropylene by the Folymentzation.

from that of NATT.

Investigation of the infrared absorption spectrum of propylene showed in the broad interval of temperatures the presence of strips (characteristic in the case of amorphous metal parts), which increase considerably by melting. (With 1 Table and 5 References).

ASSOCIATION: PRESENTED BY:

Not given

SUBMITTED:

AVAILABLE:

Library of Congress

Card 2/2

39834

5/081/62/000/011/042/057 E202/E192

5,3833

AUTHORS:

Topchiyev, A.V., Tolchinskiy, I.M., Krentsel', B.A.,

and Smolyan, Z.S.

Polymerization of olefines in the preparation of TITLE:

semi-products for plastics and synthetic fibres

PERIODICAL: Referativnyy zhurnal, Khimiya, no.11, 1962, 586-587,

abstract 11 P32. (Tr. Vses. soveshchaniya po khim. pererabotke neft. uglevodorodov v poluprodukty dlya sinteza volokon i plast. mass. ("Proceedings of the All-Union Conference on the Chemical Conversion of Petroleum Hydrocarbons to Half-finished Products for

the Synthesis of Fibres and Plastics"), Baku, AN

Azerb.SSR, 1960, 37-39).

Synthes of polypropylene (PP) with catalyst (KT) A1(C2H5)3 (20% solution in kerosene) together with TiCl4. A1(C2H5)3 received by direct synthesis and from ethyl bromide, was studied. Propylene was prepared by dehydration of isopropanol (99.2% $C_3^{H_6}$ and 0.8% N_2 + O_2). Propylene-propane

Card 1/3

S/081/62/000/011/042/057 E202/E192

CIA-RDP86-00513R001756030002-7"

Polymerization of olefines in the ... fraction of the petroleum gas (85.1% C3H6) was also used. PP was synthesized in a reactor with a stirrer and reflux condenser; the reactor being filled first with the solvent (benzene "Kalosha") and the necessary quantity of catalyst. Next; propylene free from contaminants was introduced. Upon completion of the reaction the reactor was cooled down to +10 °C and the contents were worked by mixing with absolute methyl alcohol in order to decompose the residual catalyst. PP was filtered off and repeatedly washed with methyl alcohol and water, then it was dried at 60-70 °C until constant weight. The effects of pressure, temperature, catalyst concentration, molar ratio of Al(C2H5)3 to TiCl4 on the yield and composition of the polymer obtained were studied. It was found that at atmospheric as well as at increased (4-6 atg) pressures, the best results were obtained at temperatures \leq 50 °C. The work with pure propylene and sommercial prepane-propylene fraction gave substantially the same results. X-ray diffraction photograph, infrared spectrum

Card 2/3

APPROVED FOR RELEASE: 07/16/2001

Polymerization of olefines in the ... \$/081/62/000/011/042/057 and temperatures of melting of the ...

and temperatures of melting of the obtained polymers showed the presence of 75% crystalline phase. The possibility of using a mixture of $Al(C_2H_5)_3$ and $Al(C_2H_5)_2Br$, and also $Al(iso-C_4H_9)_3$ mixed with $TiCl_4$ as a catalyst was also studied.

[Abstractor's note: Complete translation.]

Card 3/3

S/595/60/000/000/001/014 E075/E435

AUTHORS:

Topchiyev, A.V., Tolchinskiy, I.M., Krentsel', B.A.,

Smolyan, Z.S.

TITLE:

Polymerization of olefins for the production of

intermediates for plastic masses and synthetic fibres

SOURCE:

Vsesoyuznoye soveshchaniye po khimicheskoy

pererabotke neftyanykh uglevodorodov v poluprodukty

dlya sinteza volokon i plasticheskikh mass. Baku, 1957.

Baku, Izd-vo AN Azerb. SSR, 1960. 37-49

TEXT: A description is given of a method for the polymerization of propylene using triethylaluminium in combination with titanium tetrachloride as catalyst. Purified propylene was passed into a 0.5 litre glass reactor containing a solution of the catalyst in pet.ether, b.pt. 85 to 115°C. The reactor was fitted with a thermostatic jacket and a fast stirrer. Experiments under low pressure (4 to 6 atm) were carried out in a stainless steel reactor fitted with a paddle stirrer. The optimum temperature for the polymerizations was found to be 50°C. Results of the polymerization at atmospheric pressure are listed in Table 4. Another catalyst - triisobutylaluminium - was also used Card 1/4

S/595/60/000/000/001/014 E075/E435

Polymerization of olefins ...

Triethylaluminium is synthetized from Al turnings successfully. (99.5% purity) and ethylbromide with manganese chloride acting as The active ethyl groups in the product are determined by a flux. potentiometric titration with quinoline in dioxane solution (A.I.Grayevskiy's method). Quinoline forms a complex only with the active constituents, i.e. Al(C2H5)3, Al(C2H5)2Br and This mixture can be used successfully as a catalyst. Al(C2H5)2H. Approximate composition of the product is: Al 17 to 20% wt, Br 13 to 20% wt, active ethyl groups 55 to 65% wt. TiCl₄ used had a density of 1.70 to 1.72. Dried pet.ether and "white spirit" were used as catalyst solvents. The prepared polymer is washed with absolute alcohol, 0.5% aqueous HNO3 and then with 30% aqueous alcohol solution. It is dried at 60 to 70°C. The high molecular weight components are separated by fractional precipitation Experiments with different (acetone added to toluene solution). batches of catalysts and different molar ratios of catalyst and cocatalyst have shown that the optimum ratio is of the order of 8 moles of $Al(C_2H_5)_3$ to 1 mole of TiCl4. Analogous results are obtained for triisobutylaluminium and lithium hydride. Investigation of catalyst consumption in relation to its Card 2/4

Polymerization of olefins ...

S/595/60/000/000/001/014 E075/E435

concentration in the solvent during reaction showed that the best concentration is approximately 4% wt. In conclusion, it is mentioned that the process for the production of polypropylene can be considerably simplified by polymerizing pure condensed propylene or the propane-propylene fraction of cracking gas. A.A.Korotkov is mentioned in the article in connection with his contibution in this field. There are 8 figures and 9 tables.

Card 3/4

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001756030002-7"

Polymerization of olefins ...

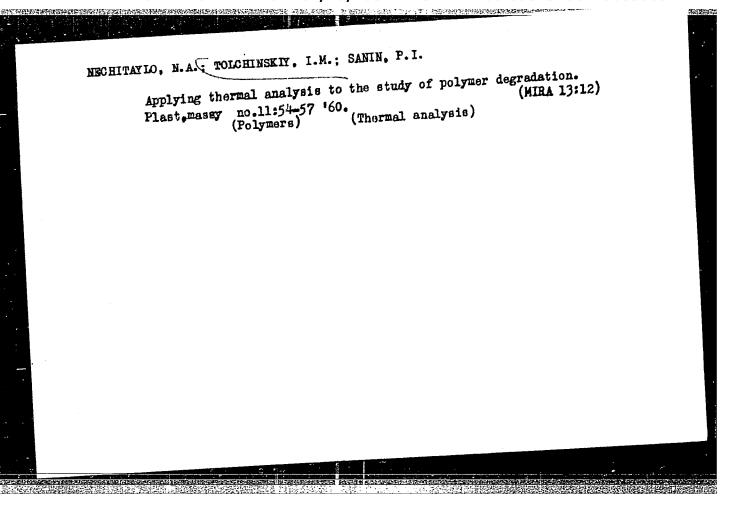
S/595/60/000/000/001/014 E075/E435

		Table 4,	
	Fee	Feedstock	
Al(C ₂ H ₅) ₃ , moles	Propylene spirit	Tech. Propylene	
TiCl4, moles	5	5	
Conc. catalyst in sol. % wt.	1	1	
Solvent	5	5	
Gas passed, litres	pet.ether	petsether	
Unreacted propylene, litres	70	68	
Conversion, %	55	54	
Time of reaction, hours	21.4	20.5	
Characteristic viscosity	3.0	3.0	
	0.90	0.86	
Card: 4/4			
	i		

NECHITAYLO, N.A.; SANIN, P.I.; TOLCHINSKIY, I.M.; Prinimali uchastiye:
DZYUBINA, M.A.; SHIROKOVA, L.A.

Melting heat of polymers. Plast.massy no.8:3-5 '61. (MIRA 14:7)

(Polymers) (Heat of fusion)



s/191/60/000/011/013/016 BO13/BO54

Card 1/2

Nechitaylo, N. A., Tolchinskiy, I. M., Sanin, P. I.

AUTHORS:

Use of Thermal Analysis to Study the Destruction of Polymers

TITLE:

Plasticheskiye massy, 1960, No. 11, pp. 54-57 PERIODICAL:

TEXT: The present paper gives heating curves for some polymers in the temperature range of from 20 to 800 - 900 C, and discusses the possitemperature range of from 20 to 800 - 900 C. bility of using thermal analysis for the study of destruction processes with the aid of the results obtained. Three polyethylene samples and one polypropylene sample of high molecular weight were investigated. The heating curves for the samples were plotted by a Kurnakov automatic recording photopyrometer. On heating the samples in the absence of oxygen in vacuo or an inert gas medium, only those thermal effects were fixed which were connected with the melting of crystallites (Fig. 1). It was found that the transition from the elastic-amorphous to the viscous state took place in the range of 350 - 550 C, and - as expected - was not accompanied by a thermal effect. The curves plotted on heating the samples in the presence of oxygen looked differently (Figs. 2 and 3). Both endothermic and exo-

CIA-RDP86-00513R001756030002-7" **APPROVED FOR RELEASE: 07/16/2001**

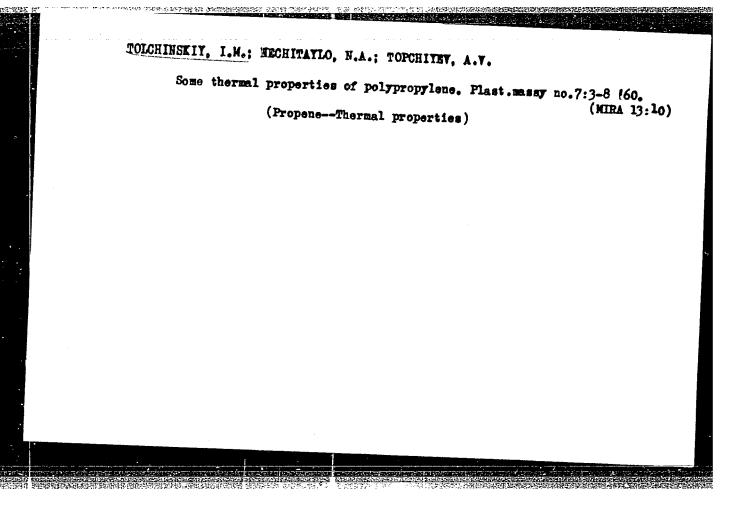
Use of Thermal Analysis to Study the Destruction of Polymers

S/191/60/000/011/013/016 B013/B054

thermic effects can be observed on these curves; they correspond to the reactions of oxidation and destruction of polymers. A table gives the temperatures of phase transformations for polyethylene and polypropylene samples. The more or less similar thermograms (Figs. 2 and 3) indicate a similar character of high-temperature oxidation and destruction of the polymers examined (Refs. 3 and 5). The thermogram for the amorphous polypropylene fraction has a slightly different form. Except for this fraction, all thermograms show more or less distinctly marked exothermic effects in the region of 200°C. On the basis of the heating curves examined, thermal analysis seems to be a suitable method of studying oxidation and destruction of polymers. It may be assumed that with the aid of thermal analysis it will also be possible to determine the efficiency of stabilizers of the antioxidant type. This should facilitate their efficient choice for polymers of various types. V. A. Kargin and T. I. Sogolova are mentioned. There are 4 figures, 1 table, and 14 references: 8 Soviet, 3 US, 1 British, and 1 Italian.

Card 2/2

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001756030002-7"



85139 \$/191/60/000/007/002/015 B004/B056

15.8102

AUTHORS: Tolchinskiy, I. M., Nechitaylo, N. A., Topchiyev, A. V.

TITLE:

Some Thermal Properties of Polypropylene 15

PERIODICAL: Plasticheskiye massy, 1960, No. 7, pp. 3 - 8

TEXT: The authors investigated the effect of the amorphous fraction content upon the temperature and thermal effects of melting (and crystallization, respectively) of polypropylene. Polypropylene was synthetized from the propane-propylene-gas fraction by means of catalysts from triethyl aluminum or tri-isobutyl aluminum, and TiCl₃ or TiCl₄. The heating (Fig.2)

and cooling curves (Fig. 3) were recorded by a photorecording Kurnakov pyrometer. Measurements were carried out in a Dewar (Fig. 1, total view of the apparatus). In all polypropylene samples, the authors found the same course being taken by the curves with a weak endothermic effect at 135° - 145°C, and an intensive one at 150° - 160°C. These effects could not be explained by polydispersity, because during fractionation by means of boiling heptane (carried out by L. Sidorova), the low-molecular

Card 1/3

Some Thermal Properties of Polypropylene

85139 S/191/60/000/007/002/015 B004/B056

fraction also showed the two endothermal effects. The authors assume a non-uniform structure of the polypropylene, which may be explained only by separating the crystalline part into isotactic and syndiotactic fractions and by their X-ray examination. The thermograms of the amorphous fraction showed no marked effects (Fig. 4) because of gradual softening. The interrelation between thermal effect and degree of crystallization was investigated by measuring the surfaces of the peaks of the thermal effects. Measurements were well reproducible. The measured values deviated by not more than ± 0.1 cm² from the mean values. The effect of the cooling rate $(0.5 - 7.0^{\circ}$ C per minute) upon temperature and amount of the thermal effects is, as may be seen from Table 1, below. A comparison between the thermal effects of samples with 7.9% and 20.3% amorphous fraction (Table 2) with a low amorphous fraction content gave a larger area of the peaks, which did not change considerably after repeated heating. The amorphous fraction was now extracted by means of cold toluene, and artificial mixtures with various contents of amorphous fraction were produced. Whereas the melting and crystallization temperatures of the individual samples remained unchanged, the area of the crystallization peak depended on the amorphous fraction content as shown by Table 3.

Card 2/3

85139

Some Thermal Properties of Polypropylene

S/191/60/000/007/002/015 B004/B056

Table 3. Change in the area of the crystallization peak with the amorphous fraction content in artificial mixtures

Amorphous content	fract	ion	Ar	ea of tak (cm²	he
0.0	۲,٦		pe		1
10.0				33.7	
20.0				24.6	
30.0				21.0	
40.0				18.4	
				16.0	
(of up to	about	15%).	the	doomaa	

For synthetic polypropylene samples, the same dependence was found (Table 4). The X-ray pictures showed that all samples had the same structure (example, Fig. 6). The data from Tables 3,4 are graphically represented in Fig. 5, and the change in the area of the peaks at 0 - 10%, 10 - 20%, 20 - 30%, 30 - 40% amorphous fraction content is given in Table 5. It follows herefrom that at low amorphous fraction.

(of up to about 15%), the degree of crystallization can be determined with sufficient accuracy using the differential thermal method. The authors W. A. Kargin et al. There are 6 figures, 5 tables, and 19 references:

Card 3/3

NAMDEKIN, N.S.; TOPCHIYEV, A.V.; MURGARIYAN, S.G.; TOLCHINSKIY, I.M.

Copolymerization of dimethyl- and methylphenyldiallylsilane with propylene on the complex catalyst (C2H5)3Al+ TiCl4. Vysokom.

soed. 1 no.11:1739-1744 N '59. (MIRA 13:5)

1. Institut neftekhimicheskogo sinteza AN SSSR. (Silane) (Propene)

AUTHORS:

Topchiyev, A. V., Tolchinskiy, I. M. 62-58-3-26/30

Krentsel', B. A.

TITLE:

On the Possibility of the Polymerization of Ethylene in

Polyethylene Into the Presence of Lithiumhydride,

Aluminumhaloid and Titanium Tetrachloride (O vozmozhnost:

polimerizatsii etilena v polietilen v prisutstvii

litiygidrida, alyuminiygaloida i chetyrekhkhloristogo titana)

PERIODICAL:

Izvestiya Akademii Nauk SSSR, Otdeleniye Khimicheskikh Nauk,

1958, Nr 3, pp. 375-376 (USSR)

ABSTRACT:

Tsigler in his works maintained, that in heating ethereal solutions of lithium-aluminumhydride with ethylene (at a temperature of 180-200°C) a mixture of α -olefines is formed

under pressure: butene, hexene, decene and dodecene. Corresponding to experimental data it is to be expected that the actual catalyst in this case is tetraethyl-lithiumaluminum. The latter is formed in consequence of the inter-

action of ethylene with lithiumaluminumanhydride

Card 1/2

 $\text{LiAlH}_4 + 4\text{C}_2\text{H}_4 \longrightarrow \text{LiAl}\left[\text{C}_2\text{H}_5\right]_4$. A formation of high-

On the Possibility of the Polymerization of Ethylene in 62-58-3-26/30 Polyethylene in the Presence of Lithiumhydride, Aluminumhaloid and Titanium Tetrachloride

molecular polymers of ethylene was not observed. It was of interest to produce triethylaluminum simultaneously as well as to obtain a polymerization of ethylene to polyethylene. The experiments were carried out in the autoclave in the medium of an inert solvent. It was shown that it is possible to produce polyethylene in the presence of lithiumhydride, aluminumhalides and titanium tetrachloride. Besides, there exists the possibility of a reaction as well as of a production of polypropylene by means of the same method. There is 1 reference, which is Soviet.

ASSOCIATION:

Institut nefti Akademii nauk SSSR (Institute of Petroleum , AS USSR)

SUBMITTED:

October 28, 1957

Card 2/2

AUTHORS:

Topchiyev, A. V., Tolchinskiy, I. M. Krentsel', B. A.

62-58-3-26/30

TO THE SECTION OF THE SECTION STREET, THE SECT

TITLE:

On the Possibility of the Polymerization of Ethylene in

Polyethylene Into the Presence of Lithiumhydride,

Aluminumhaloid and Titanium Tetrachloride (O vozmozhnosti

polimerizatsii etilena v polietilen v prisutstvii

litiygidrida, alyuminiygaloida i chetyrekhkhloristogo titana)

PERIODICAL:

Izvestiya Akademii Nauk SSSR,Otdeleniye Khimicheskikh Nauk,

1958, Nr 3, pp. 375-376 (USSR)

ABSTRACT:

Tsigler in his works maintained, that in heating ethereal solutions of lithium-aluminumhydride with ethylene (at a

temperature of 180-200°C) a mixture of α -olefines is formed

under pressure: butene, hexene, decene and dodecene.

Corresponding to experimental data it is to be expected that the actual catalyst in this case is tetraethyl-lithium-

aluminum. The latter is formed in consequence of the inter-

action of ethylene with lithiumaluminumanhydride

Card 1/2

 $LiAlH_4 + 4C_2H_4 \rightarrow LiAl[C_2H_5]_4$. A formation of high-

On the Possibility of the Polymerization of Ethylene in 62-58-3-26/30 and Titanium Tetrachloride

molecular polymers of ethylene was not observed. It was of interest to produce triethylaluminum simultaneously as well as to obtain a polymerization of ethylene to polyethylene. The experiments were carried out in the autoclave in the medium of an inert solvent. It was shown that it is possible to produce polyethylene in the presence of lithiumhydride, aluminumhalides and titanium tetrachloride. Besides, there exists the possibility of a reaction as well as of a production of polypropylene by means of the same method. There is 1 reference, which is Soviet.

ASSOCIATION:

Institut nefti Akademii nauk SSSR (Institute of Petroleum, AS USSR)

SUBMITTED:

October 28, 1957

Card 2/2

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TOLCHIROITY, N. Ts.

Tolchinskiy, M. Ts. "The significance of X-ray investigation in the deagnosis of cancer of the rectum", Trudy Akad. med. nauk SSSR, Vol. L, 19h9, p. 97-93, --Billog: lh items.

SO: U-hll, 17July 1953, (Letopis 'Zhurnal 'nykh Statey, No. 20, 19h9)
```

LAPSHIN, Aleksandr Aleksandrovich, kand.tekhn.mauk; KUSHUL, Veniamin Moiseyevich, kand.tekhn.mauk; UDAL'TSOV, A.N., glavnyy red.; TOLCHINSKIY, M.Ye., inzh.red.

2 40 - - 411 1 5 3

[The EV-53 electronic hygrometer. A device for gauging and signaling pressure drops] Elektronnyi vlagomer EV-53. Pribor dlia izmereniia i signalizatsii perepada davlenii. Moskva. 1956. 12 p. (Pribory i stendy. Tema 4, no.P-56-437)

(MIRA 11:3)

1. Mowcos. Institut tekhniko-ekonomicheskoy informatsii.
(Hygrometry) (Pressure gauges)

THE STATE OF STREET AND THE STREET AND THE STREET, THE STREET AND THE STREET, THE STREET,

TOLCHINSKIY, N. A., Cand Tech Sci -- (diss) "Research into resinometallic caterpillar tracks of agricultural tractors." Moscow, 1960.
12 pp; (Ministry of Higher and Secondary Specialist Education REFSR, Moscow Automechanical Inst); 150 copies; price not given; (KL, 27-60, 155)

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001756030002-7"

TOLCHINSKIY, N.A., inzh.

Rubber-metal links for tractor tracks. Mekh. i elek. sots. sel'khoz. 16 no.3:25-28 '58. (MIRA 11:6)

1. Altayskiy institut sel'skokhozyaystvennogo mashinostroyeniya. (Caterpillar tractors)

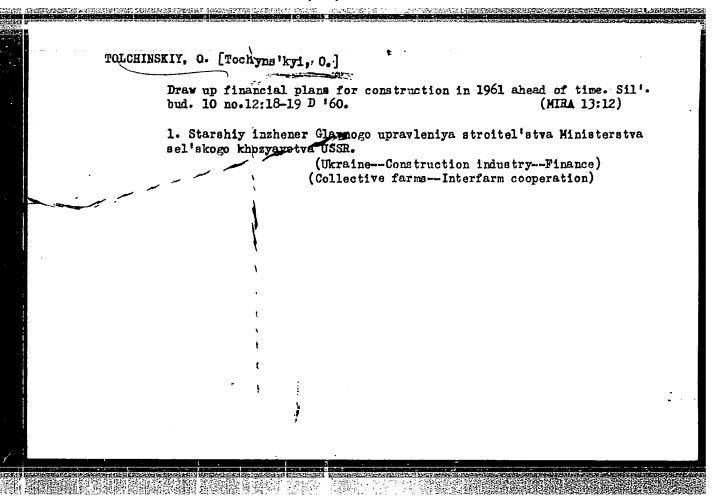
APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001756030002-7"

TOLCHINSKIY, N.A., kand. tekhn.nauk; KAPLINSKIY, Ye.M., inzh.

Bench for studying the characteristics of rubber-metal hinges. Trakt. i sel'khozmash. no.9:11-12 S '65.

(MIRA 18:10)

1. Altayskiy politekhnicheskiy institut.



TOLCHIUSKIY, O. [Tolchyns'kyi, O.]

Do not stop building in winter. Sil'.bud. 7 no.12:8
D '57. (MIRA 13:5)

1. Nachal'nik upravleniya mezhkolkhoznykh organizatsiy
Glavkolkhozstroya Ministerstva sel'skogo khozyaystva USSR.

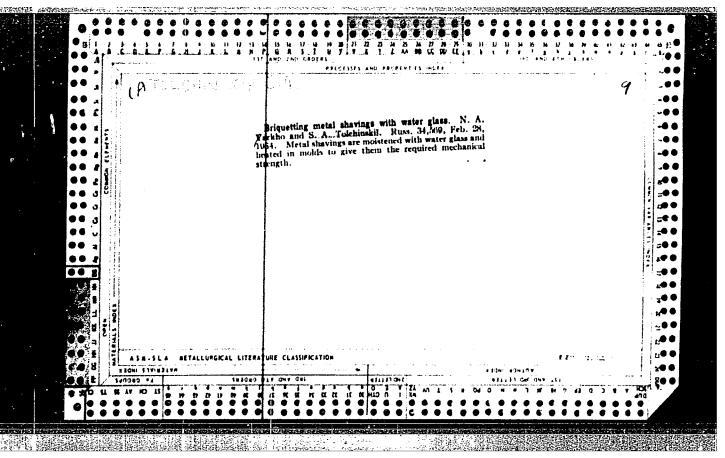
(Building--Cold weather conditions)

TOLCHINGKIY, G. A.; SHAPKIN, A. K.; Engs.

Steam Boilers

Condenser pipes made from corresion registant alloys. Elek. sta. 24, No. 1, 1953.

9. Monthly List of Russian Accessions, Library of Congress, Nay 1953, Unclassified.



ARKHIPOV, Konstantin Nikolayevich; SOLOV'YEV, Nikolay Vasil'yevich, prof.; Prinimali uchastiye: GLEBOV, A.G.; TOLCHINSKIY, S.S.; ZOLOTNITSKIY, N.D., doktor tekhn. nauk, prof., red.; VERESKUNOV, V.K., nauchnyy red.; ZHURAVLEV, B.A., red.izd-va; KASIMOV, D.Ya., tekhn. red.

[Fundamentals of dafety engineering and fire prevention in the building materials industry]Osnovy tekhniki bezopasnosti i protivopozharnoi tekhniki v promyshlennosti stroitel'nykh materialov. Pod obshchei red. N.D.Zolotnitskogo. Moskva, Gosstroiizdat, 1962. 295 p. (MIRA 16:1)

(Building materials industry—Fires and fire prevention)
(Industrial safety)

KITAYEVICH, A.Ye.; TOLCHINSKIY, V.A.

Case of spinal meningitis of otogenous origin. Zhur. ush., nos. i gorl. bol. 23 no.5:86-87 S-0'63 (MIRA 17:3)

1. Iz otorinolaringologicheskogo otdeleniya (zav. - Ya.V. Bo-gatyrev) Dmetskoy tsentral'noy klinicheskoy bol'nitsy.

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001756030002-7"

Metastatic seminoma in the larynx. Vest.oto-rin. 20 no.5:120
Metastatic seminoma in the larynx. Vest.oto-rin. 20 no.5:120
(MIRA 11:12)
S-0 '58

1. Iz Oto-rino-laringologicheskogo otdeleniya (znv. Yn.V. Bogatyrev)
Oblastnoy tsentral'noy klinicheskoy bol'nitsy g. Stalino, Donbass.

(LARYNX, neoplasma.

7 seminoma, metastatic (Rus))

(GISCERNINOMA, case roports,
larynx, metastatic (Rus))

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001756030002-7"

Progressive methods for assembling rolling mills. Mont. i spets.
rub. v. stroi. 22 no.12:1-5 D '60. (MIRA 13:11)

1. Magnitogorskoye montazhnoye upravleniye Prokatmontazh tresta
Vostokmetallurgmontazh.

(Holling mills)

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001756030002-7"

A STATE OF THE STA

NEVIDITSIN, N.; BUKHSHTEYN, I.; BAYEVICH, A.; TOLCHINSKIY, Ya.; GLUGAN, A.

Regulate wages in the automotive transport industry. Avt. transp. 34 no.10:3-5 0 '56. (MLRA 9:12)

1. Kiyevskiy avtotrest (for Neviditsin) 2. Nachal'nik planovogo otdela Dneprodzerzhinskoy Avtotransportnoy kontory Ministerstva stroitel'stva predpriyatiy metallurgicheskoy i khimicheskoy promyshlennosti (for Bukhshteyn) 3. Starshiy ekonomist avtotransportnoy kontory "Grozneftezavodstroy," (for Bayevich) 4. Dnepropetrovskiy avtotrest Ministerstva stroitel'stva predpriyatiy metallurgicheskoy i khimicheskoy promyshlennosti (for Tolchinskiy and Glugan).

(Wages) (Transportation, Automotive)

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001756030002-7"

LAVROV, Igor' Aleksandrovich; SHTEYNBOK, G.Yu., inzh., ved. red.; TOLCHINSKIY, Ye.M., inzh., red.; SOROKINA, T.M., tekhn.red.

[Ultrathermostat with a semiconductor temperature pickup for liquids]Ul'tratermostat zhidkostnyi s poluprovodnikovym datchikom temperatury. Moskva, Filial Vses. in-ta nauchn. i tekhn. informatsii, 1958. 8 p. (Peredovoi nauchno-tekhnicheskii i pro-izvodstvennyi opyt. Tema 34. No.P-58-53/6) (MIRA 16:2) (Thermostat)

PERELESHINA, Alina Petrovna, kandidat fiziko-matematioheskikh nauk;
UNAL "TSOV, A.N., glavnyy redaktor; TOLCHINSKIY, Ye.M., inzhener,
redaktor.

[Thermistors used as measuring instruments] Termistory-izmeritel nye
pribory. Tema 4, no.P-56-472. Moskva, Filial Vses.in-ta nauchn. i
tekhn.informatsii, 1956. 9 p.

(Thermistors)

TOLCHINSHIY, YE.W.

KUZ'MIN, Petr Alekseyevich; PROK, Aleksandr Yudimovich; UDAL'TSOV, A.N., glavnyy red.; TOLCHINSKIY, Ye.M., inzh.red.

[Device for determining the specific weight of gases. Resistance thermometer for taking the temperature of surfaces] Pribor dlia opredeleniia udel'nogo vesa gazov. Termometr soprotivleniia dlia izmereniia temperatury poverkhnostei. Moskva, In-t tekhniko-izmereniia temperatury poverkhnostei. Tema 4, no. P-56-447) ekon.inform., 1956, 9 p. (Pribory i stendy. Tema 4, no. P-56-447)

1. Moscow. Institut tekhniko-ekonomicheskoy informatsii. (Gases--Measurement) (Thermometers)

LA PARE LA CAPPINATION DE PERENCIPIENTE DE PROPERTIE DE PERENCIPIENTE DE PERENCIPIENTE DE PERENCIPIENTE DE PE KARANDIN, Boris Nikolayevich, inzh.; FILIPPOV, Lev Petrovich; TOLCHINSKIY.
Ye.M., inzh.red.; SHTEYHBOK, G.Yu., inzh. red.; UDAL TSOV, A.N., glavnyy red. [Self-recording density gauge for small currents of liquid. Equipment for gauging the heat conductivity of liquids | Registriruiushchii plotnomer dlia malykh potokov zhidkosti. Ustanovka dlia izmereniia teploprovodnosti zhidkostei. Moskva, 1956. 10 p. (Pribory i stendy. Tema 4, no. P-56-417) (MIRA 11:3) 1. Moscow. Institut tekhniko-ekonomicheskoy informatsii. (Liquids -- Measurement)

CIA-RDP86-00513R001756030002-7" APPROVED FOR RELEASE: 07/16/2001

IVANOV. Lev Ivanovich; MATVEYEVA, Melitina Petrovna, kand.tekhn.nauk; UDALITSOV, A.M., glavnyy red.; TOLOHIMSKIY, Ye.M., insh.red.

[Methods and equipment for gauging the heat of sublimation of metals according to the rate of vaporation of open surfaces]

Metod i ustanovka dlia izmereniia teploty sublimatsii metallov po skorosti ispareniia s otkrytoi poverkhnosti. Moskva, In-t tekhniko-ekon. inform. 1956. 10 p (Pribory i stendy. Tema 4, no.P-56-427)

(Heat of sublimation)

(MIRA 11:3)

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001756030002-7"

TO A TOTAL TO THE PROPERTY OF THE PROPERTY OF

LAZAREV, Aleksandr Ivanovich, kand.tekhn.nauk; UDAL'TSOV, A.N., red.;

TOLCHINSKIY, Ye.M., inzh., red.

[Equipment for studying the heat of transformations and actual heat capacity of metals at high temperatures] Ustanovka dlia issledovaniia teplot prevrashchenii i istinnoi teploemkosti metallov pri vysokikh temperaturakh. Moskva, Filial Vses.in-ta nauchnoi i tekhnicheskoi inform., 1956. 27 p. (Pribory i stendy. Tema 4, no.P-501)

(MIRA 10:12)

(Metals at high temperatures) (Heat of transition)

TYUKEL', Grigoriy Al'ich; inzh.; TOICHINSKIY Yefim Moiseyevich, inzh.;
IVCHEIKO, Dmitriy Fedorovich, inzh.; UDAL'TSOY, A:H., glevnyy red.;
SHTENHEOK, G.Yu., inzh.red.; POHOMAREV, V.A., tekhn.red.

[Visual multiple intermittent contact recorders of pressure and electricity] Mnogotochechnye opticheskie samopistsy davlenii i elektricheskikh velichin. Moskva, Filial Vees. in-ta nauchnoi i tekhn. informatsii, 1956. 42 p. (Pribory i stendy. Tema 4, no. P-56-522)

(Pressure gauges) (Electric meters)

(Recording instruments)

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001756030002-7"

44681-66 ACC NR: AP6005396

SOURCE CODE: UR/0413/66/000/001/0151/0152

AUTHORS: Lebedev, A. V.; Tolchinskiy, Ye. M.

ORG: none

TITLE: Null unit Class 21, No. 165497

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 1, 1966, 151-152

TOPIC TACS: transistorized oscillator, dc amplifier

ABSTRACT: This Author Certificate presents a null unit containing an oscillator with a nonlinear controlled element connected in the feedback circuit. To increase the sensitivity, a differential amplifier and an oscillator with positive uncontrolled feedback and a controlled transistor are used. The collector circuit of the transistor is connected in the negative feedback loop, and the base circuit is connected to the output of the differential amplifier. To eliminate overloading of the null unit with an increase of the compared input signals, two transformers are used. The primary of one transformer is connected in the collector circuit of the transistor oscillator. The secondary is connected in the collector circuit of the controlled transistor of the negative feedback loop and in a constant resistance circuit forming the positive feedback loop. The primary of the second transformer is connected in the sum circuit of the positive and negative feedback signals, and the secondary is connected to the base of the oscillator transistor. SUB CODE: 09/ SUBM DATE: 19Nov62 1/1 hs

UDC: 621.3.317.078

V 1 1	
Ľ.	ACC NR: AP6025423 SOURCE CODE: UR/0143/66/000/007/0086/0093
1	AUTHOR: Tolkachev, D. F.
	ORG: Kazan Aviation Institute (Kazanskiy aviatsionnyy institut)
	TITLE: Investigating convective heat transfer in tubular heat exchange with direct-flow of a particle suspension and a pebble hed
	SOURCE: TVIIZ, Energetika, no. 7, 1966, 86-93
	TOPIC TAGS: convective heat transfer, heat exchanger, heat transfer
	ABSTRACT: An experimental investigation has been conducted of the effect on heat transfer of a preheated pebble bed (cast iron shot 3.71mm fect on heat transfer of a preheated pebble bed (cast iron shot 3.71mm in diameter, steel balls 4mm in diameter, gravel 3.24mm in diameter, and alumosilicate balls 2.88mm in diameter) and sand particles introduced into a stream of gas flowing across a bank of tubes. In the duced into a stream of gas flowing across a bank of tubes. In the experiments with sand particles, the air temperature at the inlet into heat exchanger ranged from 114.4 to 197.3C and at the exit, from 86.2 heat exchanger ranged from 114.4 to 197.3C and at the exit, from 86.2 to 106.0C; the air velocity varied from 3.92 to 10.42 m/sec. In the experiments with the seed bed, the air inlet temperatures varied from 101.8 to 149.7C, the exit temperatures from 59.9 to 87.2C and the air

ACC NR: AP6025423

velocity from 3.82 to 13.62 m/sec. The obtained results were compared with the data obtained with a flow of pure air under similar conditions. The following conclusions were drawn: 1) The pebble bed has the greatest effect on heat transfer; the intensity of the heat transfer depends more on the relative temperatures of solid particles and air than on the particle concentration; 2) The average heat transfer coefficient is 20.4% higher for the sand particles and 28.2% higher for the pebble bed than that of pure air; 3) In addition the hydraulic resistance is 52.2% higher for the sand particles and 12.8% higher for seed bed than 4) A heat exchanger using the sand particle suspension is not considered to be feasible; 5) In the case of heat exchangers with the pebble bed, the considerable increase in the heat transfer coefficient with only a small increase in the hydraulic resistance, plus the selfcleaning of the heat transfer surface indicate that such a heat Orig. art. has: 4 figures and 17 formulas. [AS]

SUB CODE: 20/ SUBM DATE: 04Jan65/ ORIG REF:

Card 2/2

ALL NK: AP0022203 SOURCE CODE: UR/0115/66/000/005/0050/0053 AUTHOR: Lebedev, A. V.; Tolchinskiy, Ye. M. ORG: none TITLE: Balance detector with differential amplifier SOURCE: Izmeritel'naya tekhnika, no. 5, 1966, 50-53 TOPIC TAGS: balance detector, null detector, differential amplifier electronic ABSTRACT: The balance (null) detector is considered whose output indicates which of two voltages being compared is higher. The detector circuit (see figure) with two isolated inputs has high cophasal-noise rejection and satisfactory stability. Based on recently published theory of differential systems ("Noise levels in measuring systems: a classification study." Strain gage reading , 1961, v. 4, no. 1), (b) formulas are derived for detector errors caused by asymmetry and nonlinearity of the differential Trigger amplifier. Relations describing practical conditions circuit of balance and symmetry are derived; they can be used DUno in adjusting the measuring circuit. A possibility of drift (up to 100 m v in the case of transistorized In 1 In 2 8x.1 amplifiers) should also be taken into account. Orig. Dif art. has: 3 figures and 16 formulas. SUB CODE: 09 / SUBM DATE: none / ORIG REF: 001 / OTH REF: 002 UDC: 621.317.726+621.375.1

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001756030002-7"

ACC NR: AP7003008

SOURCE CODE: UR/0413/66/000/024/0156/0156

INVENTORS: Tolchinskiy, Ye. M.; Lebedev, A. V.; Gorbunova, G. I.; Dobrov, N. A.; Gusel'nikova, M. V.; Zagryadskiy, A. I.; Zazulin, V. A.; Podol'skaya, G. V.

ORG: none

TITLE: An automatic measuring and recording device "ERA". Class 42, No. 165597

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 24, 1966, 156

TOPIC TAGS: measuring instrument, transistor, analog digital converter, logic element

ABSTRACT: This Author Certificate presents an automatic measuring and recording device "Era." The device contains a group relay commutator of the meters, grouped measuring amplifiers, an analog-digital converter with a zero-organ and a generator of stage voltages, and a directing unit. To connect a desired group to the analog-digital converter and to measure voltages of alternating signs, a logic commutator is connected to the outputs of the measuring amplifiers. This commutator contains transistor switches, the number of which is equal to twice the number of amplifiers. These switches are connected to the group counter and to the sign trigger. The input of the unity position of this trigger is connected to the directing unit, and the input of the zero position is connected with the output of the zero organ.

SUB CODE: 09/

SUBM DATE: 11Jul63

Card 1/1

UDC: 681.178.9

LEBEDEV, A.V.; TOLCHIREKTY, Ye.M.

Analysis of the measuring circuit of an analog-to-digital converter having a differential amplifier. Priborostronenie no.12:7-4 D'63.

(MIRA 17:5)

ZUBOV, Ivan Petrovich, inzh.; SHTEYNBOK, G.Yu., inzh., ved. red.; TOLCHINSKIY, Ye.M., inzh., red.; SOROKIN, T.M., tekhn.red.

[Stability of the thermoelectromotive force in chromel-alumel thermocouples in a 300 - 1000° temperature range]Stabil'nost' T.E.D.S.khromel'-aliumelevykh termopar v intervale 300 - 1000. Moskva, Filial Vses. in-ta nauchn. tekhn. informatsii, 1957. 32 p. (Reredovoi nauchno-tekhnicheskii i proizvodstvennyi opyt. Tema 34. No.P-57-20/5) (MIRA 16:3)

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001756030002-7"

CONTROL OF THE PROPERTY OF THE

GERASHCHENKO, Oleg Arkad'yevich, kand. tekhn. nauk; FEDOROV, Vladimir Gavrilovich, inzh.; MORDVINOVA, N.P., inzh., ved. red.; TOLCHINSKIY, Ye.M., inzh., red.; SOROKINA, T.M., tekhn. red.

[Heat flow transducers]Datchik teplovogo potoka. Moskva, Filial Vses. in-ta nauchn. i tekhn. informatsii, 1958. 10 p. (Peredovoi nauchno-tekhnicheskii i proizvodstvennyi opyt. Tema 34. No.P-58-80/8)

(Transducers) (Heat-Transmission) (Heat exchangers)

YEREMENKO, Aleksandra Semenovna, kand. tekhn. nauk; PECHUK, Vasiliy
Ivanovich, kand. tekhn. nauk; GAZHEMAN, Ivan Lazarevich, inzh.;
SHTEYNBOK, G.Yu., inzh., ved. red.; TOLCHINSKIY, Ye.M., red.;
SOROKINA, T.M., tekhn. red.

[Stand for investigating aerodynamic processes in rotating models of turbine stages]Stend dlia issledovaniia aerodinamicheskikh protsessov vo vrashchaiushchikhsia modeliakh stupenei turbin. Moskva, Filial Vses. in-ta nauchn. i tekhn. informatsii, 1958. 8 p. (Peredovoi nauchno-tekhnicheskii i proizvodstvennyi opyt. Tema 34. No.P58-48/5) (MIRA 16:3)

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001756030002-7"

LEBEDEV, A.V.; TOLCHIVE IV. Yo.M.; TYAPKIN, M.V.

The DIU-256/1 electronic measurement unit with a digital output.
Priborostroenie no.11:13-17 N '60. (MIRA 13:11)

(Electronic measurements)

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001756030002-7"

86650

16.9500 (1031, 1132, 1222) 6,7800 (also 1067)

S/119/60/000/011/006/009

AUTHORS:

Lebedev, A. V., Tolchinskiy, Ye. M., and Tyapkin, M. V.

TITLE:

Electronic Measuring Device ДИУ-256/I (DIU-256/I) With

Digital Output

PERIODICAL: Priborostroyeniye, 1960, No. 11, pp. 13 - 17

The authors describe the electronic measuring device $\mu_{y-256/I}$ (DIU-256/I). It serves for the automatic measurement of 256 parameters, but it can also measure a lower number (128, 64, or 32). In such cases, each transmitter is consulted 2, 4, or 8 times, respectively, during one series of measurements. One series of measurements of the 256 parameters is a paid carried out in 1 second. The multichannel system of the device permits the use of several channels for the connection of calibration signals. The measurement results are printed on the record sheet in the form of threeplace decimals. As there is no printing device available that is capable of printing 256 three-place numbers in one second, this apparatus uses a buffer memory with a magnetic drum. Printing of the 256 measured values takes about 25 seconds. An operator controls the device from a remote-

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Electronic Measuring Device ДИУ-256/I (DIU-256/I) S/119/60/000/011/006/009 With Digital Output B012/B054

control panel. Besides the printing device, a perforator may be used for the automatic feeding of data into the digital computer. Fig. 1 shows the block diagram of the device. Its main characteristics are the grouping of transmitters of the same type, as well as the two-stage commutation, i.e. each group of transmitters may have a transmitter commutator, an amplifier, and a zero organ (nul'-organ) considering the characteristics of the respective transmitter group, and may use a calibration oscillator for various transmitter groups. The transmitters of the device are divided into four groups. Each group consists of 64 transmitters. The transformation of the continuous voltages into the code is based on a comparison of the measured voltage with the gradually increasing calibration voltage generated by the calibration oscillator by means of the zero organ, as well as on the counting of impulses traveling from the control block to the calibration oscillator. Among the four valves, only one is upon at a time. The alternating opening of valves is done by the electronic commutator of the second stage which, in turn, is controlled by the impulses coming from the valves. The transformation control block synchronizes the operation of the circuit during the transformation, controls the electronic commutator of the second stage and the calibration oscillator, and ensures the

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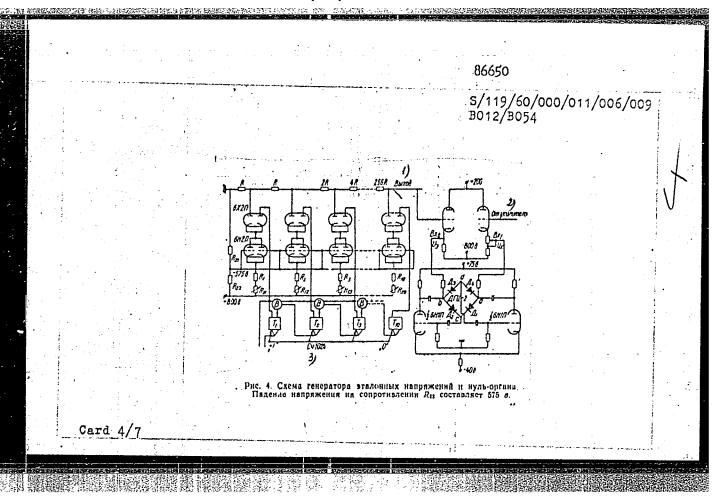
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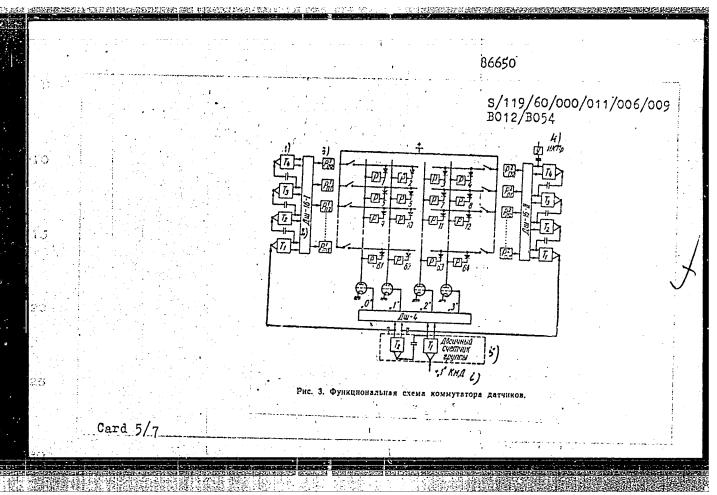
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Electronic Measuring Device ДИУ-256/I (DIU-256/I) S/119/60/000/011/C06/009 With Digital Output B012/B054

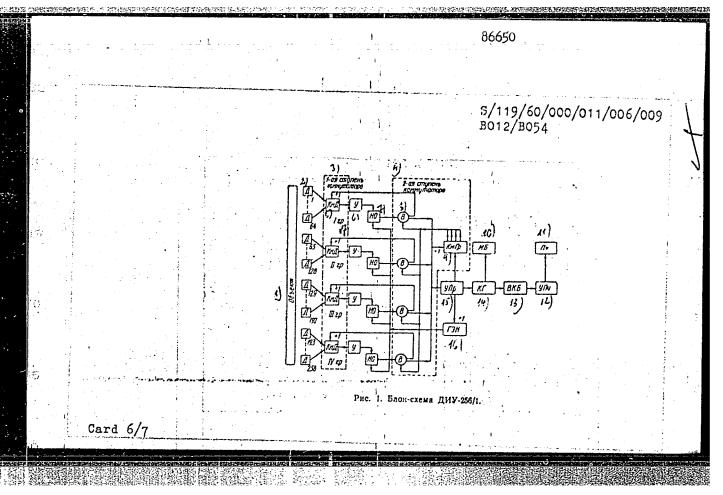
recording of the code on the magnetic drum. Another control block selects the code on the magnetic drum. A third block controls the printing mechanism. Fig. 3 shows the functional scheme of the commutator for the transmitters. It consists of various stages, and includes a decoder for four outputs, two decoders for 16 outputs, and an output matrix. Fig. 4 shows the circuit diagram of the calibration oscillator and of the zero organ. The calibration oscillator consists of a binary counter with ten classes, and a transformer of the code to a proportional voltage. An experimental checking of the calibration oscillator showed that the drift of the stabilizer currents is at most 0.03% after 5 hours. A d.c.amplifier with automatic selection of the drift (between the two measurement series) is used to amplify the signals coming from the transmitters. Fig. 5 shows the circuit diagram of a d.c.amplifier of the type yNT-1 (UPT-1). Tests of the device showed an error of +0.1% in the transformation and recording at input voltages of 0-5 v. There are 6 figures and 3 Soviet references.

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Legend to Fig.1: Block diagram of DIU-256/I. 1) Object, 2) transmitter, 3) first commutator stage, 4) second commutator stage, 5) transmitter commutator, 6) amplifier, 7) zero organ, 8) valve, 9) electronic commutator of the 2nd stage, 10) magnetic drum, 11) printing mechanism, 12) printing control block, 13) control block for code selection, 14) commutator for the magnetic-drum heads, 15) transformation control block, 16) calibration oscillator, 17) group. Legend to Fig. 3: Functional scheme of the transmitter commutator. 1) Trigger, 2) decoder, 3) relay, 4) last trigger of the input counter of the decoder ДШ-16-II (Dsh-16-II), 5) binary counter of the group, 6) transmitter commutator. Legend to Fig.4: Circuit diagram of the calibration oscillator and of the zero organ. Voltage drop on resistor R₂₂ is 575 v. 1) Output, 2) from amplifier, 3) counter of calibration oscillator. Legend to Fig. 5: Circuit diagram of the d.c.measuring amplifier: Kom - kiloohms, ΠΦ - picofarads, MKΦ - microfarads, OM - ohms, 24 - cycles, Л - tube, В - volts 1) Relay, 2) vibrator, 3) reversing motor, 4) two-part panel for 20 pieces. Card 7/7

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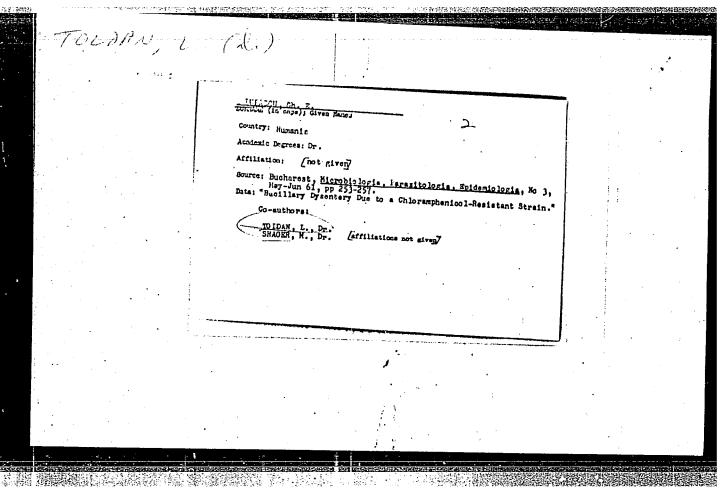
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